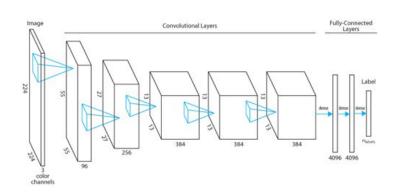
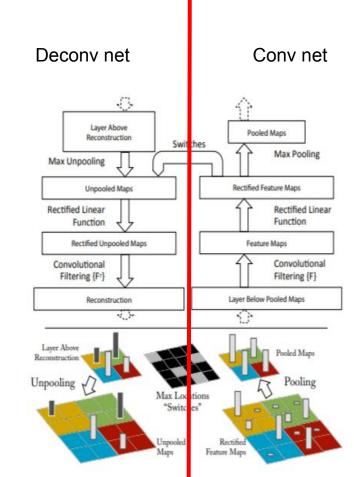
Visualizing CNNs



Model: Attach deconv net on each layer

To visualize a CNN filter on a layer

- Pick top 9 activations for the filter
- For each pick:
 - Set all other activations on the layer to zero
 - Project back to input space using deconv net
 - Identify the area of interest in the input space
 - Gray-ish images
 - Identify the corresponding patch in training data
 - RGB images



Ref:

- https://arxiv.org/abs/1311.2901
- https://blogs.technet.microsoft.com/machinelearning/2017/04/12/embarrassingly-parallel-image-classification-using-cognitive-toolkit-tensorflow-on-azure-hdinsight-spark/